

high temps.)

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ANSWER 153 OF 233 CA COPYRIGHT 2003 ACS on STN
L4
AN
    120:198776 CA
    Targets of partially stabilized zirconia, and their manufacture
ΤI
    Jaeckel, Gernot; Rudolph, Thomas; Peuckert, Doris; Joennson, Sigurd
TN
    Degussa AG, Germany
PA
    Ger., 4 pp.
SO
    CODEN: GWXXAW
DT
    Patent
    German
LA
IC
    ICM C23C014-08
    ICS C23C014-30; C04B035-48
ICA F01D005-18
    57-2 (Ceramics)
CC
FAN.CNT 1
    PATENT NO. KIND DATE APPLICATION NO. DATE
                                        _____
    _____
    DE 4302167 C1 19940210
                                       DE 1993-4302167 19930127
PΤ
PRAI DE 1993-4302167 19930127
    The ZrO2 of the targets contains 0.5-25 wt.% Y2O3 as stabilizer, both
    oxides have purity .gtoreq.98%, and 5-80 wt.% of the ZrO2 is present in
     the monoclinic form and the balance in the tetragonal and cubic
     form. The targets have d. 3.0-4.5 g/cm3, and are used for forming
     thermally insulating coatings on metal components exposed to
    high temps. The targets are manufd. by pressing ZrO-Y2O3 mixts., and
     sintering the green targets at 1150-1450.degree. for 0.5-10 h.
    yttria stabilizer zirconia sputtering target
ST
IT
     Sputtering
        (targets, zirconia, yttria-stabilized, manuf. of,
       for forming thermally insulating coatings on metal components
       exposed to high temps.)
     1314-23-4, Zirconia, uses
IT
     RL: USES (Uses)
        (yttria-stabilized, sputtering targets, for forming thermally
       insulating coatings on metal components exposed to high
       temps.)
     1314-36-9P, Yttria, uses
IT
     RL: PREP (Preparation); USES (Uses)
        (zirconia partially stabilized with, manuf. of, for forming
       thermally insulating coatings on metal components exposed to
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=> => d his

## (FILE 'HOME' ENTERED AT 15:52:13 ON 15 SEP 2003)

FILE 'CA' ENTERED AT 15:52:20 ON 15 SEP 2003
L1 87926 S ZIRCONIA OR ZIRCONIUM(W)OXIDE
L2 4182 S L1 AND CUBIC
L3 1950 S L2 AND (YTTRIA OR YTTRIUM(2A)OXIDE? OR GALDOLIUM OR YTTERBIUM

L4 233 S L3 AND (COATING OR COAT?)

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